



SEQUENCE LISTING

<110> PINNA, LORENZO  
DONELLA-DEANA, ARIANNA  
MARIN, ORIANO  
MOLOGNI, LUCA  
GUNBY, ROSALIND  
GAMBACORTI PASSERINI, CARLO  
SCAPOZZA, LEONARDO

<120> ANAPLASTIC LYMPHOMA KINASE ASSAY, REAGENTS AND  
COMPOSITIONS THEREOF

<130> 2503-1169

<140> 10/547,842

<141> 2006-05-15

<150> PCT/EP2004/002185

<151> 2004-03-04

<150> EP 03005186.6

<151> 2003-03-07

<160> 5

<170> PatentIn Ver. 3.3

<210> 1

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<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 1

Ala Arg Asp Ile Tyr Arg Ala Ser Phe Phe Arg Lys Gly Gly Cys Ala  
1 5 10 15

Met Leu Pro Val Lys  
20

<210> 2

<211> 21

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 2

Ala Arg Asp Ile Tyr Arg Ala Ser Tyr Tyr Arg Lys Gly Gly Cys Ala  
1 5 10 15

Met Leu Pro Val Lys  
20

<210> 3

# SEQUENCE LISTING

<211> 21  
 <212> PRT  
 <213> Artificial Sequence

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 <223> Description of Artificial Sequence: Synthetic peptide

<400> 3  
 Ala Arg Asp Ile Phe Arg Ala Ser Tyr Phe Arg Lys Gly Gly Cys Ala  
 1 5 10 15  
 Met Leu Pro Val Lys  
 20

<210> 4  
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<220>  
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 4  
 Ala Arg Asp Ile Phe Arg Ala Ser Phe Tyr Arg Lys Gly Gly Cys Ala  
 1 5 10 15  
 Met Leu Pro Val Lys  
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<210> 5  
 <211> 1620  
 <212> PRT  
 <213> Homo sapiens

<400> 5  
 Met Gly Ala Ile Gly Leu Leu Trp Leu Leu Pro Leu Leu Leu Ser Thr  
 1 5 10 15  
 Ala Ala Val Gly Ser Gly Met Gly Thr Gly Gln Arg Ala Gly Ser Pro  
 20 25 30  
 Ala Ala Gly Ser Pro Leu Gln Pro Arg Glu Pro Leu Ser Tyr Ser Arg  
 35 40 45  
 Leu Gln Arg Lys Ser Leu Ala Val Asp Phe Val Val Pro Ser Leu Phe  
 50 55 60  
 Arg Val Tyr Ala Arg Asp Leu Leu Leu Pro Pro Ser Ser Ser Glu Leu  
 65 70 75 80  
 Lys Ala Gly Arg Pro Glu Ala Arg Gly Ser Leu Ala Leu Asp Cys Ala  
 85 90 95  
 Pro Leu Leu Arg Leu Leu Gly Pro Ala Pro Gly Val Ser Trp Thr Ala  
 100 105 110  
 Gly Ser Pro Ala Pro Ala Glu Ala Arg Thr Leu Ser Arg Val Leu Lys  
 115 120 125

# SEQUENCE LISTING

Gly Gly Ser Val Arg Lys Leu Arg Arg Ala Lys Gln Leu Val Leu Glu  
 130 135 140  
 Leu Gly Glu Glu Ala Ile Leu Glu Gly Cys Val Gly Pro Pro Gly Glu  
 145 150 155 160  
 Ala Ala Val Gly Leu Leu Gln Phe Asn Leu Ser Glu Leu Phe Ser Trp  
 165 170 175  
 Trp Ile Arg Gln Gly Glu Gly Arg Leu Arg Ile Arg Leu Met Pro Glu  
 180 185 190  
 Lys Lys Ala Ser Glu Val Gly Arg Glu Gly Arg Leu Ser Ala Ala Ile  
 195 200 205  
 Arg Ala Ser Gln Pro Arg Leu Leu Phe Gln Ile Phe Gly Thr Gly His  
 210 215 220  
 Ser Ser Leu Glu Ser Pro Thr Asn Met Pro Ser Pro Ser Pro Asp Tyr  
 225 230 235 240  
 Phe Thr Trp Asn Leu Thr Trp Ile Met Lys Asp Ser Phe Pro Phe Leu  
 245 250 255  
 Ser His Arg Ser Arg Tyr Gly Leu Glu Cys Ser Phe Asp Phe Pro Cys  
 260 265 270  
 Glu Leu Glu Tyr Ser Pro Pro Leu His Asp Leu Arg Asn Gln Ser Trp  
 275 280 285  
 Ser Trp Arg Arg Ile Pro Ser Glu Glu Ala Ser Gln Met Asp Leu Leu  
 290 295 300  
 Asp Gly Pro Gly Ala Glu Arg Ser Lys Glu Met Pro Arg Gly Ser Phe  
 305 310 315 320  
 Leu Leu Leu Asn Thr Ser Ala Asp Ser Lys His Thr Ile Leu Ser Pro  
 325 330 335  
 Trp Met Arg Ser Ser Ser Glu His Cys Thr Leu Ala Val Ser Val His  
 340 345 350  
 Arg His Leu Gln Pro Ser Gly Arg Tyr Ile Ala Gln Leu Leu Pro His  
 355 360 365  
 Asn Glu Ala Ala Arg Glu Ile Leu Leu Met Pro Thr Pro Gly Lys His  
 370 375 380  
 Gly Trp Thr Val Leu Gln Gly Arg Ile Gly Arg Pro Asp Asn Pro Phe  
 385 390 395 400  
 Arg Val Ala Leu Glu Tyr Ile Ser Ser Gly Asn Arg Ser Leu Ser Ala  
 405 410 415  
 Val Asp Phe Phe Ala Leu Lys Asn Cys Ser Glu Gly Thr Ser Pro Gly  
 420 425 430  
 Ser Lys Met Ala Leu Gln Ser Ser Phe Thr Cys Trp Asn Gly Thr Val  
 435 440 445  
 Leu Gln Leu Gly Gln Ala Cys Asp Phe His Gln Asp Cys Ala Gln Gly  
 450 455 460

SEQUENCE LISTING

Glu Asp Glu Ser Gln Met Cys Arg Lys Leu Pro Val Gly Phe Tyr Cys  
465 470 475 480

Asn Phe Glu Asp Gly Phe Cys Gly Trp Thr Gln Gly Thr Leu Ser Pro  
485 490 495

His Thr Pro Gln Trp Gln Val Arg Thr Leu Lys Asp Ala Arg Phe Gln  
500 505 510

Asp His Gln Asp His Ala Leu Leu Leu Ser Thr Thr Asp Val Pro Ala  
515 520 525

Ser Glu Ser Ala Thr Val Thr Ser Ala Thr Phe Pro Ala Pro Ile Lys  
530 535 540

Ser Ser Pro Cys Glu Leu Arg Met Ser Trp Leu Ile Arg Gly Val Leu  
545 550 555 560

Arg Gly Asn Val Ser Leu Val Leu Val Glu Asn Lys Thr Gly Lys Glu  
565 570 575

Gln Gly Arg Met Val Trp His Val Ala Ala Tyr Glu Gly Leu Ser Leu  
580 585 590

Trp Gln Trp Met Val Leu Pro Leu Leu Asp Val Ser Asp Arg Phe Trp  
595 600 605

Leu Gln Met Val Ala Trp Trp Gly Gln Gly Ser Arg Ala Ile Val Ala  
610 615 620

Phe Asp Asn Ile Ser Ile Ser Leu Asp Cys Tyr Leu Thr Ile Ser Gly  
625 630 635 640

Glu Asp Lys Ile Leu Gln Asn Thr Ala Pro Lys Ser Arg Asn Leu Phe  
645 650 655

Glu Arg Asn Pro Asn Lys Glu Leu Lys Pro Gly Glu Asn Ser Pro Arg  
660 665 670

Gln Thr Pro Ile Phe Asp Pro Thr Val His Trp Leu Phe Thr Thr Cys  
675 680 685

Gly Ala Ser Gly Pro His Gly Pro Thr Gln Ala Gln Cys Asn Asn Ala  
690 695 700

Tyr Gln Asn Ser Asn Leu Ser Val Glu Val Gly Ser Glu Gly Pro Leu  
705 710 715 720

Lys Gly Ile Gln Ile Trp Lys Val Pro Ala Thr Asp Thr Tyr Ser Ile  
725 730 735

Ser Gly Tyr Gly Ala Ala Gly Gly Lys Gly Gly Lys Asn Thr Met Met  
740 745 750

Arg Ser His Gly Val Ser Val Leu Gly Ile Phe Asn Leu Glu Lys Asp  
755 760 765

Asp Met Leu Tyr Ile Leu Val Gly Gln Gln Gly Glu Asp Ala Cys Pro  
770 775 780

Ser Thr Asn Gln Leu Ile Gln Lys Val Cys Ile Gly Glu Asn Asn Val  
785 790 795 800

# SEQUENCE LISTING

Ile Glu Glu Glu Ile Arg Val Asn Arg Ser Val His Glu Trp Ala Gly  
805 810 815  
Gly Gly Gly Gly Gly Gly Gly Ala Thr Tyr Val Phe Lys Met Lys Asp  
820 825 830  
Gly Val Pro Val Pro Leu Ile Ile Ala Ala Gly Gly Gly Gly Arg Ala  
835 840 845  
Tyr Gly Ala Lys Thr Asp Thr Phe His Pro Glu Arg Leu Glu Asn Asn  
850 855 860  
Ser Ser Val Leu Gly Leu Asn Gly Asn Ser Gly Ala Ala Gly Gly Gly  
865 870 875 880  
Gly Gly Trp Asn Asp Asn Thr Ser Leu Leu Trp Ala Gly Lys Ser Leu  
885 890 895  
Gln Glu Gly Ala Thr Gly Gly His Ser Cys Pro Gln Ala Met Lys Lys  
900 905 910  
Trp Gly Trp Glu Thr Arg Gly Gly Phe Gly Gly Gly Gly Gly Gly Cys  
915 920 925  
Ser Ser Gly Gly Gly Gly Gly Gly Tyr Ile Gly Gly Asn Ala Ala Ser  
930 935 940  
Asn Asn Asp Pro Glu Met Asp Gly Glu Asp Gly Val Ser Phe Ile Ser  
945 950 955 960  
Pro Leu Gly Ile Leu Tyr Thr Pro Ala Leu Lys Val Met Glu Gly His  
965 970 975  
Gly Glu Val Asn Ile Lys His Tyr Leu Asn Cys Ser His Cys Glu Val  
980 985 990  
Asp Glu Cys His Met Asp Pro Glu Ser His Lys Val Ile Cys Phe Cys  
995 1000 1005  
Asp His Gly Thr Val Leu Ala Glu Asp Gly Val Ser Cys Ile Val Ser  
1010 1015 1020  
Pro Thr Pro Glu Pro His Leu Pro Leu Ser Leu Ile Leu Ser Val Val  
1025 1030 1035 1040  
Thr Ser Ala Leu Val Ala Ala Leu Val Leu Ala Phe Ser Gly Ile Met  
1045 1050 1055  
Ile Val Tyr Arg Arg Lys His Gln Glu Leu Gln Ala Met Gln Met Glu  
1060 1065 1070  
Leu Gln Ser Pro Glu Tyr Lys Leu Ser Lys Leu Arg Thr Ser Thr Ile  
1075 1080 1085  
Met Thr Asp Tyr Asn Pro Asn Tyr Cys Phe Ala Gly Lys Thr Ser Ser  
1090 1095 1100  
Ile Ser Asp Leu Lys Glu Val Pro Arg Lys Asn Ile Thr Leu Ile Arg  
1105 1110 1115 1120  
Gly Leu Gly His Gly Ala Phe Gly Glu Val Tyr Glu Gly Gln Val Ser  
1125 1130 1135

# SEQUENCE LISTING

Gly Met Pro Asn Asp Pro Ser Pro Leu Gln Val Ala Val Lys Thr Leu  
 1140 1145 1150  
 Pro Glu Val Cys Ser Glu Gln Asp Glu Leu Asp Phe Leu Met Glu Ala  
 1155 1160 1165  
 Leu Ile Ile Ser Lys Phe Asn His Gln Asn Ile Val Arg Cys Ile Gly  
 1170 1175 1180  
 Val Ser Leu Gln Ser Leu Pro Arg Phe Ile Leu Leu Glu Leu Met Ala  
 1185 1190 1195 1200  
 Gly Gly Asp Leu Lys Ser Phe Leu Arg Glu Thr Arg Pro Arg Pro Ser  
 1205 1210 1215  
 Gln Pro Ser Ser Leu Ala Met Leu Asp Leu Leu His Val Ala Arg Asp  
 1220 1225 1230  
 Ile Ala Cys Gly Cys Gln Tyr Leu Glu Glu Asn His Phe Ile His Arg  
 1235 1240 1245  
 Asp Ile Ala Ala Arg Asn Cys Leu Leu Thr Cys Pro Gly Pro Gly Arg  
 1250 1255 1260  
 Val Ala Lys Ile Gly Asp Phe Gly Met Ala Arg Asp Ile Tyr Arg Ala  
 1265 1270 1275 1280  
 Ser Tyr Tyr Arg Lys Gly Gly Cys Ala Met Leu Pro Val Lys Trp Met  
 1285 1290 1295  
 Pro Pro Glu Ala Phe Met Glu Gly Ile Phe Thr Ser Lys Thr Asp Thr  
 1300 1305 1310  
 Trp Ser Phe Gly Val Leu Leu Trp Glu Ile Phe Ser Leu Gly Tyr Met  
 1315 1320 1325  
 Pro Tyr Pro Ser Lys Ser Asn Gln Glu Val Leu Glu Phe Val Thr Ser  
 1330 1335 1340  
 Gly Gly Arg Met Asp Pro Pro Lys Asn Cys Pro Gly Pro Val Tyr Arg  
 1345 1350 1355 1360  
 Ile Met Thr Gln Cys Trp Gln His Gln Pro Glu Asp Arg Pro Asn Phe  
 1365 1370 1375  
 Ala Ile Ile Leu Glu Arg Ile Glu Tyr Cys Thr Gln Asp Pro Asp Val  
 1380 1385 1390  
 Ile Asn Thr Ala Leu Pro Ile Glu Tyr Gly Pro Leu Val Glu Glu Glu  
 1395 1400 1405  
 Glu Lys Val Pro Val Arg Pro Lys Asp Pro Glu Gly Val Pro Pro Leu  
 1410 1415 1420  
 Leu Val Ser Gln Gln Ala Lys Arg Glu Glu Glu Arg Ser Pro Ala Ala  
 1425 1430 1435 1440  
 Pro Pro Pro Leu Pro Thr Thr Ser Ser Gly Lys Ala Ala Lys Lys Pro  
 1445 1450 1455  
 Thr Ala Ala Glu Val Ser Val Arg Val Pro Arg Gly Pro Ala Val Glu  
 1460 1465 1470

# SEQUENCE LISTING

Gly Gly His Val Asn Met Ala Phe Ser Gln Ser Asn Pro Pro Ser Glu  
 1475 1480 1485  
 Leu His Lys Val His Gly Ser Arg Asn Lys Pro Thr Ser Leu Trp Asn  
 1490 1495 1500  
 Pro Thr Tyr Gly Ser Trp Phe Thr Glu Lys Pro Thr Lys Lys Asn Asn  
 1505 1510 1515 1520  
 Pro Ile Ala Lys Lys Glu Pro His Asp Arg Gly Asn Leu Gly Leu Glu  
 1525 1530 1535  
 Gly Ser Cys Thr Val Pro Pro Asn Val Ala Thr Gly Arg Leu Pro Gly  
 1540 1545 1550  
 Ala Ser Leu Leu Leu Glu Pro Ser Ser Leu Thr Ala Asn Met Lys Glu  
 1555 1560 1565  
 Val Pro Leu Phe Arg Leu Arg His Phe Pro Cys Gly Asn Val Asn Tyr  
 1570 1575 1580  
 Gly Tyr Gln Gln Gln Gly Leu Pro Leu Glu Ala Ala Thr Ala Pro Gly  
 1585 1590 1595 1600  
 Ala Gly His Tyr Glu Asp Thr Ile Leu Lys Ser Lys Asn Ser Met Asn  
 1605 1610 1615  
 Gln Pro Gly Pro  
 1620